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From: Stan Kaczmarek

**Sent:** Thur 8/29/2013 5:51:16 PM

Subject: Survey Results

ATT00002.txt

130828 Passaic AS1 AD Survey Package JJBRev2.pdf

## Stephanie:

Attached is a zip file with all of the survey results as of August 2 including a PDF file of the survey results depicting each 10'X10' grid within Area 1. The CPG has identified 7 grids in Cuts 1, 2 and 3 that need to be dredged deeper to meet design criteria. These grids are designated by circles in the PDF. Once those areas are cut and meet design criteria, CPG requests permission to begin redeploying the silt curtain to Area 2 while a new survey confirms that these 7 grids have met design criteria.

Regarding the area in Cuts 3 and 4 highlighted by a black box on the survey map, this area is where the environmental bucket encountered refusal due to an underlying hard surface. CPG proposes to develop a plan to collect and analyze a composite sample of the loose material that is left in this area to determine the remaining levels of COPC's. The CPG will provide this plan to EPA and CDM for review and approval.

Following EPA's acceptance of undercuts in this area, then CPG will propose modifications for the cap design in this area in order to ensure that there is no net increase in elevation when the cap is placed.

Regarding potential risks associated with potential undercuts, there are historical data from 3 cores collected in the near shore area of Cuts 2 and 4. These sample locations (e.g., 357) are highlighted as blue dots on the PDF. Data from those cores are summarized below; all results indicate that COPC levels (TCDD, Total PCBs and mercury) near shore are extremely low. TCDD concentrations are less than one part per trillion for all vertical segments down to 3.5 ft below ground surface at sample location A-0357, which is located in the area where dredging encountered refusal before meeting the 2 foot cut criteria.

Going forward, CPG plans to increase production rates by focusing its efforts on the offshore areas, and when in the near shore areas, digging until there is continued refusal of the environmental bucket. CPG will notify EPA promptly whenever it does encounter refusal, and its intention will then be to collect a composite sample of the remaining materials in these other areas.

The CPG looks forward to EPA's approval to move the silt curtain once CPG finishes its cleanup cuts in Cuts 1, 2 and 3, which is anticipated to be completed by the end of today.

	TCDD	Total PCBs	Hg
	parts per trillion	parts per million	parts per million
RM10.9-0319			
0-0.5 ft.	48	0.42	0.22
0.5-1.5 ft.	24.7	0.089	1.1
1.5-2.5 ft.	2.1	0.0048	3.4
2.5-3.5 ft.	<1.43	0.0001	0.017
A-0356			
0-0.5 ft.	1.1	0.0072	0.04
0.5-1.5 ft.	<0.126	0.0005	0.013
1.5-2.5 ft.	<0.245	0.0002	0.011
2.5-3.5 ft.	<0.103	0.0009	0.011
A-0357			
0-0.5 ft.	0.42	0.0018	0.024
0.5-1.5 ft.	0.1	0.002	0.014
1.5-2.5 ft.	<0.137	0.0004	0.017
2.5-3.5 ft.	0.09	0.0004	0.014

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